EP364

USER MANUAL

ALARM AND MANAGEMENT SYSTEM

eldes

User Manual v1.0

Safety instructions

Please read and follow these safety guidelines in order to maintain safety of operators and people around:

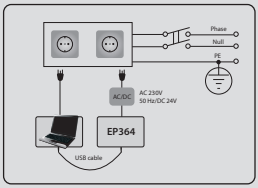
- DO NOT use the system where it can be interfere with other devices and cause any potential danger.
- DO NOT use the system with medical devices.
- DO NOT use the system in hazardous environment.
- DO NOT expose the system to high humidity, chemical environment or mechanical impacts.
- DO NOT attempt to personally repair the system.
- System label is on the bottom side of the device.

Alarm system EP364 (also referenced as alarm system, system or device) is a device mounted in limited access areas. Any system repairs must be done only by qualified, safety aware personnel.

The system must be powered by main 16-24V 50 Hz ~1.5A max or 18-24V ⎓ 1,5A max DC power supply which must be approved by LST EN 60950-1 standard and be easily accessible nearby the device. When connecting the power supply to the system, switching the pole terminals places does not have any affect.

Any additional devices linked to the system EP364 (computer, sensors, relays etc.) must be approved by LST EN 60950-1 standard.

Main power supply can be connected to AC mains only inside installation room with automatic 2-pole circuit breaker capable of disconnecting circuit in the event of short circuit or over-current condition. Open circuit breaker must have a gap between connections of more than 3mm and the disconnection current 5A.



Mains power and backup battery must be disconnected before any installation or tuning work starts. The system installation or maintenance must not be done during stormy conditions.

Backup battery must be connected via the connection which in the case of breaking would result in disconnection of one of battery pole terminals. Special care must be taken when connecting positive and negative battery terminals. Switching the pole terminals places is NOT allowed.

In order to avoid fire or explosion hazards the system must be used only with approved backup battery.

The device is fully turned off by disconnecting 2-pole switch off device of the main power supply and disconnecting backup battery connector.

Fuse F1 type – Slow Blown 3A. Replacement fuses have to be exactly the same as indicated by the manufacturer.

If you use I security class computer for setting the parameters it must be connected to earth.

The WEEE (Waste Electrical and Electronic Equipment) marking on this product (see left) or its documentation indicates that the product must not be disposed of together with household waste. To prevent possible harm to human health and/or the environment, the product must be disposed on in an approved and environmentally safe recycling process. For further information on how to dispose of this product correctly, contact the system supplier, or the local authority responsible for waste disposal in your area.

Limited Liability

The buyer must agree that the system will reduce the risk of fire, theft, burglary or other dangers but does not guarantee against
such events.
"ELDES UAB" will not take any responsibility regarding personal or property or revenue loss while using the system. "ELDES UAB" liability according to local laws does not exceed value of the purchased system. "ELDES UAB" is not affiliated with any of the cellular providers therefore is not responsible for the quality of cellular service.

Manufacturer Warranty

The system carries a 24-month warranty by the manufacturer "ELDES UAB". Warranty period starts from the day the system has been purchased by the end user. The warranty is valid only if the system has been used as intended, following all guidelines listed in the manual and within specified operating conditions. Receipt must be kept as a proof of purchase date.
The warranty is voided if the system has been exposed to mechanical impact, chemicals, high humidity, fluids, corrosive and hazardous environments or other force majeure factors.

Technical Support

If you require more detailed information on your system or in case of system failure occurrence, please, contact your alarm system installer.

About User Manual

This document describes basic configuration and usage of alarm system EP364. It is very important to read the user manual before starting to use the system.

NOTE: For complete system configuration and control, please refer to EP364 installation manual located at www.eldes.lt/en/download

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1. General Information

EP364 is an alarm system for private houses, cottages, village houses, garages, warehouses and other buildings, also capable of turning on/off the electrical appliances by alarm system keypad. This alarm system provides a simple thus effective way of use.

The system may consist of:

- EP364 alarm system device.
- Up to 4 EKB2/EKB3 wired keypads.
- Up to 4 EKB3W wireless keypads.
- Wired and/or wireless detection devices: movement sensors, magnetic door contacts, smoke sensors etc.
- Other devices: indoor/outdoor sirens, zone/PGM output expansion modules, heating, lighting, gates etc.

For more details on EP364 system, please, consult with your alarm system installer.

1.1 Short Description of Main Definitions

The following table provides the explanation of main definitions which are met in this user manual.

Definition	Description
System; alarm system	EP364 device
Keypad	Device with a set keys allowing to configure & control the system, view violated zones & system troubles
EKB2	Model of wired LCD keypad
EKB3	Model of wired LED keypad
EKB3W	Model of wireless LED keypad
User password	4-digit combination intended for system arming/disarming using a keypad
iButton® key	Small metal tab containing a unique ID code intended for system arming/disarming
Zone	Alarm system input for wired and wireless sensor connection
PGM output	Alarm system output for connection of electrical appliances (heating, lighting, gates etc.)
Partition	Section dividing one alarm system into two or more independent parts software-wise

1.2 EKB2 Keypad Overview

EKB2 is an LCD keypad intended for using with EP364 alarm system.

Keys Functionality

←	One menu level back / cancel
↑	Menu navigation – up
↓	Menu navigation – down
OK	Confirm (enter) value
0 … 9	Value typing
P1	Keypad partition switch / minus symbol for entering negative temp. value
P2	Additional menu / minus symbol for entering negative temp. value

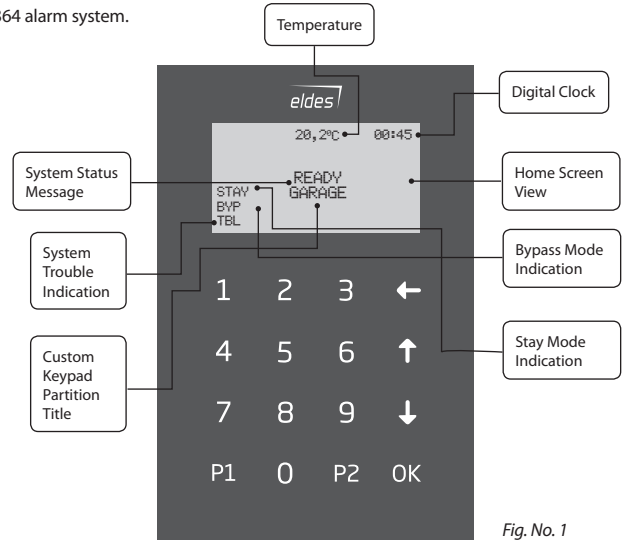


Fig. No. 1

Main Messages & Icons

Icon / Message	Description
	Delay zone violated when system is disarmed.
	Exit delay countdown initiated.
	System is armed and menu is locked.
	System is disarmed and menu is unlocked
+ CONFIGURATION MODE	Configuration Mode activated.
BURGLARY ALARM	Delay, Instant or Follow zone violated when system is armed.

Icon / Message	Description
24 ALARM	24H zone violated.
FIRE ALARM	Fire zone violated.
TAMPER ALARM	Tamper violated
READY	System is ready to be armed.
NOT READY	System is not ready to be armed – one or more zones / tampers violated.
ARMED	System is armed (optional feature).
STAY	Stay mode activated
BYP	One or more zones bypassed
TBL	One or more system troubles are present

EKB2 LCD screen is intended for displaying alarm system status messages and alerts. Message **READY** is displayed on the screen that no zones are violated or no troubles are present and the system is prepared for arming. Message **NOT READY** (and **TBL**) shows up in case of zone violation or if system troubles are present. The alarm system cannot be armed until the troubles are removed or violated zone (-s) is restored, bypassed or set up to operate under Force mode. The following troubles allow system arming when present:

- main power supply is lost.
- low battery.
- battery dead or missing.
- battery failed.
- siren failed.
- date/time not set.

Audio Indication

The built-in buzzer uses two types of sound signals – three short beeps and one long beep. Three short beeps stand for successfully carried out configuration command, one long beep – for invalid configuration command. In addition, the buzzer continuously emits short beeps in case of alarm and during exit/entry delay.

Visual Indication

EKB2 can be used even in dark premises as the LCD screen and keys are illuminated continuously. In case of alarm the keypad illumination level is boosted and stays in this state until the system is disarmed. The illumination level lowers down in 3 minutes after the last key-touch while the system is disarmed.

1.3 EKB3/EKB3W Keypad Overview

EKB3/EKB3W is a LED keypad intended for using with EP364 alarm system.

LED Functionality

ARMED	Alarm system is armed /Configuration mode
READY	System is prepared for arming
SYSTEM	System troubles / valid command is being entered
BYPS	Zone bypass mode
1-12	Violated zone

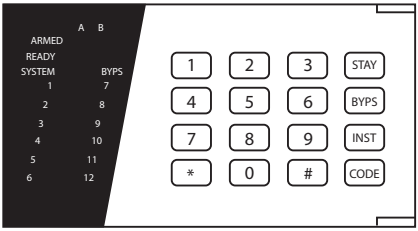


Fig. No. 2

Keys Functionality

[BYPS]	Zone bypass mode
[CODE]	Additional options - system trouble list / violated high zone indication / violated tamper indication
[*]	Configuration Mode (when typed as a 1st character) / cancel command (when typed as a 2nd character) / keypad partition switch (if enabled)
[#]	Confirm (enter) command
[0] ... [9]	Command typing
[STAY]	Manual Stay mode activation
[INST]	(currently inactive)

The green indicator **READY** indicates that no zones are violated or no troubles are present and the system is prepared for arming. Yellow indicator **SYSTEM** lights up or flashes in case of zone violation or if system troubles are present. The alarm system cannot be armed until the troubles are removed or violated zone (-s) is restored, bypassed or set up to operate under Force mode. The following troubles allow system arming when present:

- main power supply is lost.
- low battery.
- battery dead or missing.
- battery failed.
- siren failed.
- date/time not set.

Audio Indication

The built-in buzzer uses two types of sound signals – three short beeps and one long beep. Three short beeps stand for successfully carried out configuration command, one long beep – for invalid configuration command. In addition, the buzzer continuously emits short beeps in case of alarm and during exit/entry delay.

Visual Indication

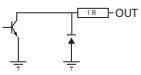
EKB3 keys have a LED back-light, therefore it is possible to use this keypad even in dark premises. In case of alarm the keypad back-light turns on and lasts until the system is disarmed. The back-light lasts for 3 minutes after the last key-stroke while the system is disarmed.
Due to battery power saving reasons the EKB3W keypad back-light and LED light last for 10 seconds after the last key-stroke. However, this duration is configurable.

1.4 Partitions

Your alarm system may be divided into up to 4 partitions: Partition 1 - Partition 4 . Each system partition operates independently from each other, therefore dividing the system into partitions allows to use 1 alarm system unit to secure up to 4 different areas, for example: office and warehouse, house and garage etc. By default configuration, the system is NOT divided into partitions and all user phone numbers, user passwords, keypads, iButton® keys, zones are assigned to Partition 1.

2. Technical Specifications

2.1 Electrical & Mechanical Characteristics

Electrical & Mechanical Characteristics	
Main Power Supply	16-24V 50 Hz ~1.5A max / 18-24V ⎓ 1,5A max
Current in Standby without External Sensors and Keyboard	Up to 80mA
Recommended Backup Battery Voltage, Capacity	12V; 1,3-7Ah
Recommended Backup Battery Type	Lead-Acid
Maximum Battery Charge Current	900mA
Number of Zones on Board	6 (ATZ mode: 12)
Nominal Zone Resistance	5,6kΩ (ATZ Mode: 5,6kΩ and 3,3kΩ)
Number of PGM Outputs on Board	4
EP364 PGM Output Circuit	 Open Collector Output. Output is pulled to COM when turned ON.
Maximum Commuting PGM Output Values	Voltage – 30V; Current – 100mA;
BELL: Siren Output when Activated	Connected to COM
BELL: Maximum Siren Output Current	1A
BELL: Maximum Cable Length for Siren Connection	up to 30 meters
BELL: Cable Type for Siren Connection	Unshielded
AUX: Auxiliary Equipment Power Supply Voltage	13,8V DC
AUX: Maximum Accumulative Current of Auxiliary Equipment	1,1A
AUX: Maximum Cable Length for Auxiliary Equipment Connection	up to 100 meters
AUX: Cable Type for Auxiliary Equipment Connection	Unshielded
BUZ: Maximum Current of Mini Buzzer	150mA
BUZ: Power Supply Voltage of Mini Buzzer	5V DC
BUZ: Cable Type for Mini Buzzer Connection	Unshielded
Dimensions	140x100x18mm
Operating Temperature Range	-20...+55^{0}C
Supported Temperature Sensor Model	Maxim®/Dallas® DS18S20, DS18B20
Maximum Supported Number of Temperature Sensors	8
DATA: Maximum Cable Length for 1-Wire® Communication	up to 30 meters
DATA: Cable Type for 1-Wire® Communication	Unshielded
Supported iButton® Key Model	Maxim®/Dallas® DS1990A
Maximum Supported Number of Keyboards	4 x EKB2 / EKB3
Y/G: Maximum Cable Length for RS485 Communication	up to 100 meters
Y/G: Cable Type for RS485 Communication	Unshielded
MIC: Maximum Cable Length for Microphone Connection	Up to 2 meters
MIC: Cable Type for Microphone Connection	Unshielded
Wireless Transmitter-Receiver Frequency	868 Mhz
Wireless Communication Range	Up to 30m in premises; up to 150m in open areas
Maximum Supported Number of Wireless Devices	32
Event Log Size	500 events
Maximum Supported Number of Zones	76
Maximum Supported Number of PGM Outputs	76
Cable Type for Zone and PGM Output Connection	Unshielded
Communications	PSTN
Supported Protocols	Ademco Contact ID®, 4+2

2.2 Main Unit, LED & Connector Functionality

Main Unit Functionality	
DEF	Pins for restoring default settings
USB	Mini USB port
FUSE F1	3A fuse
W-LESS ANT	Wireless antenna SMA type connector
MODULES*	Slots for EA1, EA2 or EPGM8 module

LED Functionality	
C1	PGM output C1 status - on/off
C2	PGM output C2 status - on/off
C3	PGM output C3 status - on/off
C4	PGM output C4 status - on/off
STAT	Micro-controller status

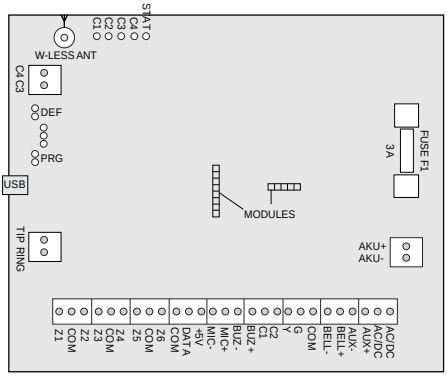


Fig. No.3

Connector Functionality	
TIP	PSTN (landline) terminal
RING	PSTN (landline) terminal
DATA	1-Wire® interface for iButton® key & temperature sensor connection
+5V	Temperature sensor power supply terminal (+5V)
MIC-	Microphone negative terminal
MIC+	Microphone positive terminal
BUZ-	Mini buzzer negative terminal
BUZ+	Mini buzzer positive terminal
C1 - C4	PGM output terminals
Z1 - Z6	Security zone terminals
Y	RS485 interface for communication (yellow wire)
G	RS485 interface for communication (yellow wire)
COM	Common return terminal
BELL-	Siren negative terminal
BELL+	Siren positive terminal
AUX-	Negative power supply terminal for auxiliary equipment
AUX+	Positive power supply terminal for auxiliary equipment
AC/DC	Main power supply terminals
AKU-	Backup battery negative terminal
AKU+	Backup battery positive terminal

2.3 Wiring Diagrams

2.3.1 General Wiring

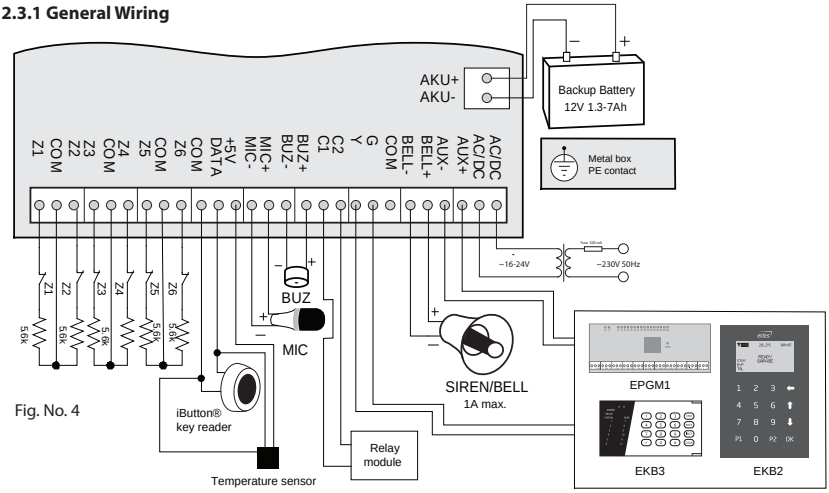
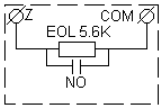


Fig. No. 4

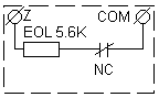
2.3.2 Zone Connection Types

Type 1



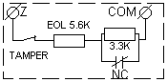
Normally open contact with 5,6KΩ end of line resistor

Type 2



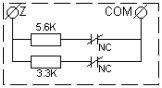
Normally closed contact with 5,6KΩ end of line resistor

Type 3



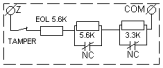
Tamper and 5,6KΩ end of line resistor and 3,3KΩ end of line resistor with normally closed contact

Type 4



ATZ Mode: 5,6KΩ end of line resistor and normally closed contact with 3,3KΩ end of line resistor and normally closed contact

Type 5



ATZ Mode: Tamper, 5,6KΩ end of line resistor, 5,6KΩ end of line resistor with normally closed contact and 3,3KΩ end of line resistor with normally closed contact.

Fig. No. 5

3. Basic Configuration & Use

ATTENTION: System configuration described in this chapter is based on default system parameter values. Your alarm system installer may have changed those values. For more details, please, contact your alarm system installer.

This chapter provides a description of basic configuration and use of EP364 alarm system by the following methods:

- EKB2 keypad.
- EKB3 keypad.
- EKB3W keypad.
- iButton® key.

EKB2

The system configuration and control by EKB2 keypad is performed by navigating throughout the menu section list displayed on LCD screen. To navigate in the menu path, touch ↓, ↑ keys to select the desired menu section and touch *OK* key to open the selected section. To enter a required value, use *0... 9* keys and touch *OK* key for value confirmation or cancel/go one menu section back by touching ←key. The value can be typed in directly by touching *0... 9* keys while highlighting the desired menu section. EKB2 menu type is "circle", therefore when the last section in the menu list is selected, you will be brought back to the beginning of the list after touching the ↓ key. In this user manual, the menu path is provided under "tree" view by starting at home screen view. In this user manual valid parameter range is indicated in brackets..

EKB3/ EKB3W

The system configuration and control by EKB3/EKB3W keypad is performed by entering a valid configuration command using the number keys *0... 9* and [#] key for confirmation. Some commands require [BYPS], [CODE] and [STAY] keys as well. The structure of standard configuration command is a combination of digits. In this user manual, valid parameter range is indicated in brackets.

3.1 Setting Up Date & Time

NOTE: When the alarm system is connected to a monitoring station the date and time are set automatically. The system retrieves this data from the monitoring station by itself.

EKB2

Navigate through the following menu path using *OK* and arrow keys and enter the date and time values using the number keys:

Menu path:

OK → DATE/TIME SET → OK → yyyy-mm-dd_hr:mn → OK

Value: yyyy – year; mm – month, range – [01... 12]; dd – day, range - [01... 31]; hr – hours, range – [00... 23], mn – minutes, range – [00... 59].

Example: *2011-12-15 13:45*

3.2 Arming, Disarming the System & Turning Off the Alarm

Before arming the system it is necessary to close all doors and windows in the secured area and move yourself away from the movement detection field.

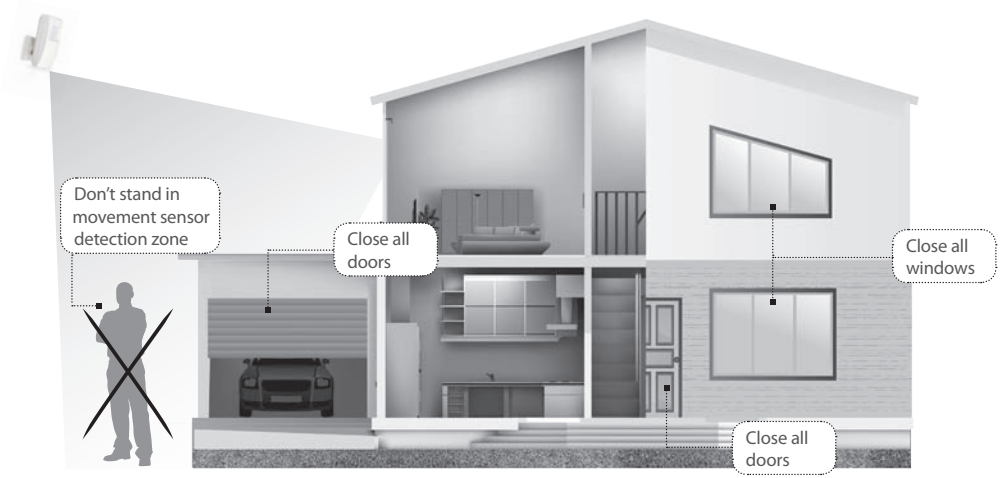


Fig. No. 5

3.2.1 Arm by EKB2 Keypad

EKB2

1. To arm the system, enter any out of 30 available 4-digit user passwords using the number keys:

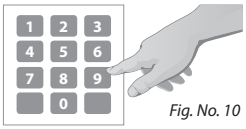


Fig. No. 10

Enter user password (and select partition):
If only 1 partition is enabled: uuuu → OK →
If more than 1 partition is enabled: uuuu → OK → [p] part-name → OK

Value: *uuuu* – 4-digit user password; *p* – partition number, range – [1... 4], *part-name* – up to 15 characters partition name.

Example: *1111 → OK → [2] PART2 → OK*

2. The system will initiate the exit delay countdown (by default – 15 seconds) intended for user to leave the secured area. The exit delay is indicated by short beeps emitted by keypad buzzer, buzzer connected to the alarm system (if any) and icon displayed next to the countdown timer on EKB2 keypad screen.
3. When the system is successfully armed, the keypad will display icon on the screen for 5 seconds and switch to home screen view.
4. The system will not allow to arm the system, when one or more zones / tampers are violated. For more details, please refer to chapter **3.5 Bypassing & Activating Zones**.

3.2.2 Disarm & Turn off the Alarm by EKB2 Keypad

EKB2

1. The system will initiate the entry delay countdown (by default – 15 seconds) after the user has entered the secured area. Entry delay countdown is intended for user to enter a valid user password before the alarm is caused. The countdown is indicated by short beeps emitted by keypad buzzer and by long steady beep emitted by buzzer connected to the alarm system (if any).

2. To disarm the system or turn off the alarm, enter any out of 30 available 4-digit user passwords using the number keys:

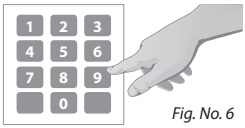


Fig. No. 6

Enter user password (and select partition):
If only 1 partition is enabled: uuuu → OK →
If more than 1 partition is enabled: uuuu → OK → [p] part-name → OK

Value: *uuuu* – 4-digit user password; *p* – partition number, range – [1... 4], *part-name* – up to 15 characters partition name.

Example: *1111 → OK → [2] PART2 → OK*

3. When the system is successfully armed and if:
   - only 1 partition is enabled, the keypad will display icon on the screen for 5 seconds and switch to home screen view.
   - more than 1 partition is enabled, the keypad will display **part-name DISARMED** message on the screen for 3 seconds and switch to partition selection menu.

3.2.3 Arm by EKB3/EKB3W Keypad

EKB3/ EKB3W

1. To arm the system, enter any out of 30 available 4-digit user passwords using the number keys:

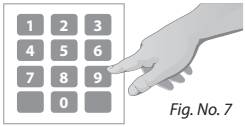


Fig. No. 7

Enter user password:
uuuu
Value: *uuuu* – 4-digit user password
Example: *1111*

2. The system will initiate the exit delay countdown (by default – 15 seconds) intended for user to leave the secured area. The countdown is indicated by short beeps provided by keypad built-in buzzer (if any).
3. When the system is successfully armed, EKB3/EKB3W red indicator **ARMED** will light ON.
4. The system will not allow to arm the system, when one or more zones / tampers are violated. For more details, please refer to chapter **3.5 Bypassing & Activating Zones**.

3.2.4 Disarm & Turn off the Alarm by EKB3/EKBW Keypad

EKB3/ EKB3W

1. The system will initiate the entry delay countdown (by default – 15 seconds) after the user has entered the secured area. Entry delay countdown is intended for user to enter a valid user password before the alarm is caused.
2. To disarm the system or turn off the alarm, enter any out of 30 available 4-digit user passwords using the number keys:

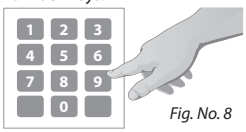


Fig. No. 8

Enter user password:
uuuu
Value: *uuuu* – 4-digit user password
Example: *1111*

3. When the system is successfully armed, EKB3/EKB3W red indicator **ARMED** will light OFF.

3.2.5 Arm by iButton® Key

1. To arm the system, touch the iButton® key reader by any out of 5 iButton® keys:

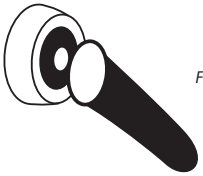


Fig. No. 9

2. The system will initiate the exit delay countdown (by default – 15 seconds) intended for user to leave the secured area. The countdown is indicated by short beeps provided by EP364 buzzer (if any).
3. The system will not allow to arm the system, when one or more zones / tampers are violated. For more details, please refer to chapter **3.5 Bypassing & Activating Zones**.

3.2.6 Disarm & Turn off the Alarm by iButton® Key

1. The system will initiate the entry delay countdown (by default – 15 seconds) after the user has entered the secured area. Entry delay countdown is intended for user to enter a valid user password before the alarm is caused.
2. To disarm the system or turn off the alarm, touch the iButton® key reader by any out of 5 iButton® keys:

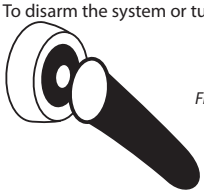


Fig. No. 10

3.2.7 Arm by EWK1 – Wireless Key-fob

EWK1

1. To arm the system, press 1 out of 4 EWK1 buttons (by default – button) assigned to arm the alarm system.

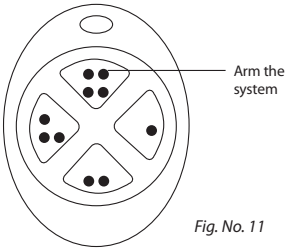


Fig. No. 11

2. The system will initiate the exit delay countdown (by default – 15 seconds) intended for user to leave the secured area.
3. The system will not allow to arm the system, when one or more zones / tampers are violated. For more details, please refer to chapter **3.5 Bypassing & Activating Zones**.

3.2.8 Disarm & Turn off the Alarm by EWK1 – Wireless Key-fob

EWK1

1. The system will initiate the entry delay countdown (by default – 15 seconds) after the user has entered the secured area. Entry delay countdown is intended for user to enter a valid user password before the alarm is caused.
2. To disarm the system or turn off the alarm, press 1 out of 4 EWK1 buttons (by default – button) assigned to disarm the alarm system

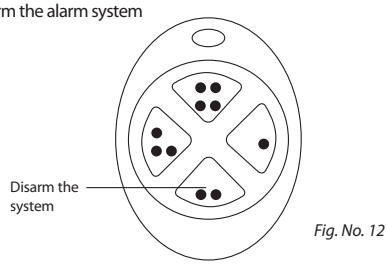


Fig. No. 12

3.3 Activating STAY Mode

EKB2

EKB3/ EKB3W

EWK1

Stay mode allows the user to remain in the secured area after arming the system. In Stay mode, the system does not cause the alarm when the zones, set up to operate under this mode, become violated. This mode is usually used when arming the system before night.

There are two ways to activate Stay mode:

- **Automatic** - This mode is activated automatically in case the user does not leave the secured area (if delay zone is not violated and restored) during exit delay countdown when arming the system.
- **Manual** - The system goes into Stay mode after the user opens an additional menu or presses [STAY] key and enters a valid user password by EKB2 and EKB3/EKB3W keypad respectively.

There is no exit delay countdown when activating Stay mode manually.
Stay mode status is indicated in the home screen view of EKB2.

NOTE: Delay Zone *Becomes Instant in* Stay *Mode* feature may be enabled on your system. In that case the alarm will be caused instantly instead of entry delay countdown being initiated if a delay zone becomes violated while the system is operating in Stay mode. For more details, please, contact your alarm system installer.

3.3.1 Arm by EKB2 Keypad in STAY Mode Manually

EKB2

1. Navigate through the following menu path using P2 and arrow keys and enter a valid user password using the number keys to arm the system in Stay mode manually:
   Menu path:
   If only 1 partition is enabled: P2 → uuuu → OK
   If more than 1 partition is enabled: P2 → uuuu → OK → [p] part-name → OK
   Value: *uuuu* - 4-digit user password
2. When the system is successfully armed and if:
   - only 1 partition is enabled, the keypad will display icon on the screen for 5 seconds and switch to home screen view where **STAY** message will be indicated.
   - more than 1 partition is enabled, the keypad will display **part-name DISARMED** message on the screen for 3 seconds and switch to partition selection menu.

For more details on how to disarm & turn off the alarm by EKB2 keypad, please refer to chapter **3.2.5 Disarm & Turn off the Alarm by EKB2 Keypad**.

3.3.2 Arm by EKB3/EKB3W Keypad in STAY Mode Manually

EKB3/ EKB3W

1. Arm the system in Stay mode manually by entering the following combination using [STAY] and number keys:
   Press the [STAY] key & enter user password:
   STAY uuuu
   Value: *uuuu* - 4-digit user password
   Example: STAY*1111*

For more details on how to disarm & turn off the alarm by EKB3/EKB3W keypad, please refer to chapter **3.2.7 Disarm & Turn off the Alarm by EKB3/EKB3W Keypad**.

3.4 Alarm Indications & Viewing Violated Zones / Tampers

EKB2

The built-in EKB2 buzzer and EP364 buzzer (if any) provide short beeps continuously in case of alarm. In addition, the LCD screen back-light level is boosted and the alarm message (depending on violated zone type or tamper violation) is displayed in the main screen view of EKB2 screen. The buzzer can be silenced by disarming the system using any method. Navigate through the following menu path using *OK* and arrow keys to view the violated zone or tamper number:

Menu path:

View violated zone: OK → VIOLATED ZONES → OK → ZONE 1... 76

View violated tamper: OK → VIOLATED TAMPERS → OK → TAMPER 1... 76

EKB3

The built-in EKB3/EKB3W buzzer emits short beeps continuously and EP364 buzzer (if any) emits a steady beep in case of alarm. In addition, the violated zone number is indicated by illuminated zone LED or flashing indicator **SYSTEM** (if the violated zone number is above 12). The violated tamper number is indicated by illuminated indicator **SYSTEM**. The buzzer can be silenced by disarming the system using any method.

For more details on EKB3/EKB3W violated high-numbered zone & tamper number indication, please refer to chapter **3.10 Trouble Indications.**

By default configuration, the siren/bell (if any) provides continuous alarm sound for 1 minute in case of alarm. The fire alarm is indicated by pulsating siren/bell alarm sound. The alarm sound can be silenced by disarming the system using anymethod.

3.5 Bypassing & Activating Zones

Arming the system is disabled while there's at least 1 violated zone. Bypassing allows to temporally deactivate a certain violated zone and arm the alarm system after-wards.

EKB2

Navigate through the following path using OK and arrow keys to bypass a violated zone (-s):

Menu path:

Bypass a zone: OK → BYPASS → OK → BYPASS LIST 1... 3 → OK → ZONE 1... 76 → OK → BYPASS → OK

Bypass all zones: OK → BYPASS → OK → BYP VIOLATED ZONES → OK

Navigate through the following path using OK and arrow keys to activate a bypassed zone:

Menu path:

Activate a bypassed zone: OK → BYPASS → OK → BYPASS LIST 1... 3 → OK → ZONE 1... 76 → OK → UNBYPASS → OK

NOTE: Zones can only be bypassed and activated when the system is not armed.

EKB3/ EKB3W

Bypass a violated zone by entering the following combination using [BYPS], number and [#] keys:
Press the [BYPS] key, enter zone number & user password:
BYPS nn uuuu #
Value: *nn* – zone number, range – [01... 76]; *uuuu* – 4-digit user password.
Example: *BYPS051111#*

NOTE: The zone will stay bypassed until the system is disarmed. Once the system is disarmed, the zone's current state will be indicated on the keypads.

ATTENTION: Bypassing a violated tamper is NOT allowed. Please, restore the tamper (for example: close sensor's enclosure) before arming the system

3.6 View Temperature

EKB2

Navigate through the following path using OK and arrow keys to view real-time temperature sensor values:
Menu path:
OK → TEMP SENSORS INFO → OK → 1... 8

3.7 Trouble Indications

EKB2

Message **TBL** displayed in the lower left side of the home screen view indicates presence of system troubles.
In order to find out more on the particular system problem please , open menu section **TROUBLES**. The description on each system problem is indicated in the table below.

Menu path:
OK → TROUBLES → OK → [TROUBLE]

Name	Description
MAIN POWER LOSS	Main power supply is lost
LOW BATTERY	Backup battery voltage is 10.5V or lower
BATTERY DEAD/MISS	Backup battery is not present or the battery voltage runs below 5V
BATTERY FAILED	Backup battery resistance is 2Ω or higher
SIREN FAILED	Siren is disconnected/broken
VIOLATED TAMPER	One or more tampers are violated
DATE/TIME NOT SET	Date/time not set

EKB3/
EKB3W

Yellow LED **SYSTEM** indicates system troubles. **SYSTEM** LED indications are mentioned in the table below.

SYSTEM LED	Description
Illuminated continously	One ore more zones or tampers are violated; other system troubles
Flashing	One or more high-numbered zones are violated

In order to find out more on the particular system problem please , enter command A. After this procedure the system will activate red zone LEDs for 15 seconds. The description on each LED indication is mentioned in the table below.

Zone LED	Description
1	Main power supply is lost
2	Backup battery voltage is 10.5V or lower
3	Backup battery is not present or the battery voltage runs below 5V
4	Backup battery resistance is 2Ω or higher
5	Siren is disconnected/broken
7	One or more tampers are violated
8	Date/time not set
10	One or more high-numbered zones (Z13 - Z76) are violated

In order to find out which particular high zone is violated please , enter command B.
In order to find out which particular tamper is violated please , enter command C.

A. System trouble indication - enter command:
[CODE#]

B. Violated high zone indication – enter command:
[CODE1]

C. Violated tamper indication – enter command:
[CODE2]

The number of violated high zone or tamper can be calculated using the table below according to the formula: number from zone LED section B + number from zone LED section A.

Example: LED #3 from section A is flashing and LED #8 from section B is illuminated continuously. According to the table below LED #8 is equal to number 18, therefore 18 + 3 = 21.

Result: Violated high zone or tamper number is 21.

Zone LED section - A (flashing)	Zone LED section - B (illuminated continously)
Zone LED 1 = 1	Zone LED 7 = 12
Zone LED 2 = 2	Zone LED 8 = 18
Zone LED 3 = 3	Zone LED 9 = 24
Zone LED 4 = 4	Zone LED 10 = 30
Zone LED 5 = 5	Zone LED 11 = 36
Zone LED 6 = 6	Zone LED 12 = 42

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